

**PUBLICATIES VAN DE UNIVERSITAIERE  
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**prof. dr. L. Arckens, prof. dr. E.J. Bellefroid,  
prof. dr. E. De Schutter, prof. dr. A. Goffinet,  
prof. dr. L. Leybaert, prof. dr. J.M. Maloteaux,  
prof. dr. P. Maquet**

**GESTEUND MET KREDIETEN VAN DE**

**GENEESKUNDIGE STICHTING KONINGIN  
ELISABETH**

**2004**

**VOLUME I**

### **Prof. Dr. L. Arckens**

S. CLERENS, W.VAN DEN ENDE, P. VERHEART, L. GEENEN and L.ARCKENS.

**Sweet substitute: a software tool for *in silico* fragmentation of peptide-linked N-glycans.**

Proteomics, Vol. 4, pp. 629 - 632. **Impact Factor: 5,483.**

L. CNOPS, B. VAN DE PLAS and L. ARCKENS.

**Age-dependent expression of collapsin response mediator proteins(CRMPs) in cat visual cortex..**

European Journal of Neuroscience, Vol.19, pp.2345 - 2351. **Impact Factor: 3,820.**

I. LEYSEN, E. VAN DER GUCHT, U.T. EYSEL, R. HUYBRECHTS, F.VANDESANDE and L.ARCKENS.

**Time-dependent changes in the expression of the MEF2 transcription factor family during topographic map reorganization in mammalian visual cortex..**

European Journal of Neuroscience, Vol. 20, pp. 769 – 780. **Impact Factor:3,820.**

### **Prof. Dr. E.J. Bellefroid**

R. VAN WAYENBERGH, V.TAELMAN, B.PICHON, M. SOLTER, T. PIELER, D.CHRISTOPHE and E.J.BELLEFROID.

**Sequences downstream of the bHLH domain of the *Xenopus* hairy-related transcription factor-1 act as an extended dimerization domain that contributes to the selection of the partners.**

Developmental Dynamics, Vol. 276, pp. 47 – 63. **Impact Factor: 5,558.**

P.PIROT, L.A.VAN GRUNSVEN, J.C.MARINE, D.HUYLEBROECK and E. BELLEFROID.

**Direct regulation of the *Nrarp* gene promoter by the notch signalling pathway.**

Biochemical and Biophysical Research Communication, Vol 322, pp. 526 – 534.

**Impact Factor: 2,946.**

### **Prof. Dr. De Schutter**

K.G. CLEAYS, P. DUPONT, L. CORNETTE, S. SUNAERT, P. VAN HECKE, G. ORBAN and Prof.Dr DE SCHUTTER.

**Color discrimination involves ventral and dorsal stream visual areas.**

Cerebral Cortex, Vol. 14, pp. 803 – 822. **Impact Factor: 5,322.**

### **Prof. Dr. A.M. Goffinet**

Y.JOSSIN, N.IGNATOVA, T. HIESBERGER, C.LAMBERT DE ROUVROIT, and A.M.GOFFINET.

**The central fragment of reelin, generated by proteolytic processing *in vivo*, is critical to its function during cortical plate development.**

The Journal of Neuroscience, Vol.24, Nr. 4, pp.514 - 521. **Impact Factor: 7,900.**

F. TASSIR, CHUAN-EN WANG and A.M.GOFFINET.

**Expression of the chemokine receptor *Cxcr4* mRNA during mouse brain development.**

Development Brain Research, Vol. 149, pp.63 - 71. **Impact Factor: 1,850.**

A; KUVBACHIEVA, A-M BESTEL, F. TASSIR, I. MALOUM, N. RAMOZ, F. BOURGEOIS, J-M MOLIAC, M. SIMONNEAU and A.M.GOFFINET.

**Identification of a novel brain-specific and reelin-regulated gene that encodes a protein colocalized with synapsin.**

European Journal of Neuroscience, Vol. 20, pp. 603 – 610. **Impact Factor: 3,800.**

H.H. BOCK, Y. JOSSIN, P. MAY, O. BERGNER and J. HERZ.

**Apolipoprotein E receptors are required for reelin-induced proteasomal degradation of the neuronal adaptor protein *disable-1*.**

The Journal of Biological Chemistry, Vol. 279, Nr. 32, pp. 33471 – 33479. **Impact Factor: 6,360.**

### **Prof. Dr. L.Leybaert**

K. BRAET, C.MABILDE, L. CABOOTER, G RAPP and L.LEYBAERT.

**Electroporation loading and photoactivation of caged InsP<sub>3</sub>: tools to investigate the relation between cellular ATP release in response to intracellular InsP<sub>3</sub> elevation.**

Journal of Neuroscience Methods, Vol.132, pp.81 - 89. **Impact Factor: .**

W.VANDAMME, K. BRAET, L. CABOOTER and L.LEYBAERT.

**Tumor necrosis factor alpha inhibits purinergic calcium signalling in blood-brain barrier endothelial cells.**

Journal of Neurochemistry, Vol. 88, pp. 411 – 421. **Impact Factor: .4,969.**

K. BRAET, L. CABOOTER, K. PAEMELEIRE and L. LEYBAERT.

**Calcium signal communication in the central nervous system.**

Biology of the Cell, Vol. 96, pp. 79 – 91. **Impact Factor: 2,127.**

K. BRAET, L. CABOOTER and L. LEYBAERT

**Calcium signal communication between glial and vascular brain cells.**

Acta Neurol. Belg., Vol. 104, pp. 51 – 56. **Impact factor:**

### **Prof. Dr. J.M. Maloteaux**

N.VANHOUTTE, I.DE HEMPTINNE, C.VERMEIREN, E. HERMANS and J.M. MALOTEAUX.

**In vitro differentiated neural stem cells express functional glial glutamate transporters.**

Neuroscience Letters, Vol.370, pp. 230 - 235. **Impact factor: 1,980.**

M.PEETERS, P.ROMIEU, T.MAURICE, T.-P. SU, E.HERMANS and J.M.MALOTEAUX

**Involvement of the sigma<sub>1</sub> receptor in the modulation of dopaminergic transmission by amantadine.**

The Journal of Neuroscience, Vol. 19, pp. 2212 - 2220. **Impact factor: 4,200.**

I.DE HEMPTINNE, C.VERMEIREN, J.M.MALOTEAUX and E.HERMANS.

**Induction of glial glutamate transporters in adult mesenchymal stem cells.**

Journal of Neurochemistry, Vol. 91, pp. 155 - 166. **Impact Factor: 4,900.**

N.PIERROT, P.GHISDAL, A.-S.CAUMONT and J.N.OCTAVE.

**Intraneuronal amyloid-β1-42 production triggered by sustained increase of cytosolic calcium concentration induces neuronal death.**

Journal of Neurochemistry, Vol. 88, pp. 1140 – 1150. **Impact Factor: 4,900.**

D.PITSI and J.N.OCTAVE.

**Presenilin 1 stabilizes the C-terminal fragment of the amyloid precursor protein independently of γ-secretase activity.**

The Journal of Biological Chemistry, Vol. 279, Nr. 24, pp. 25333 – 25338. **Impact Factor: 6,360.**

### **Prof. Dr.P. Maquet**

S.LAUREYS, S. ANTOINE, M-E.FAYMONVILLE, J.BERRE, S. ELINCX, P. DAMAS, B.LAMBERMONT, F. DAMAS, N.JANSSENS, C.LEMAIRE, G. DEL FIORE, J.AERTS, A.LUXEN, G.MOONEN, J-L VINCENT, M.LAMY, S.GOLDMAN and P.MAQUET.

**Etudes par tomographe à émission de positons chez des patients en coma, état végétatif, état de conscience minimal, syndrome de verrouillage et mort encéphalique ;**

Collection Neurophysiologie Clinique, pp.367 - 376. **Impact Factor:**

M.BOLY, M-E FAYMONVILLE, P. PEIGNEUX, B.LAMBERMONT, P.DAMAS, G.DEL FIORE, C.DEGUELDRE, G.FRANCK, A.LUXEN, M.LAMY, G.MOONEN ,S.LAURYES AND P.MAQUET.

**Auditory processing in severely brain injured patients**

**Differences between the minimally conscious state and the Persistent Vegetative State**

Arch Neurol, Vol.61, pp. 233 - 23883. **Impact Factor: 4,835.**

S.LAUREYS, M-E FAYMONVILLE, X.DE TIEGE, P.PEIGNEUX, J.BERRE, G.MOONEN, S.GOLDMAN and P.MAQUET.

**Brain function in the vegetative state**

Advances in Experimental Medecine and Biology, Vol. 550, pp.229 -238.

**Impact Factor: 0,642.**

S.LAUREYS, A.M.OWEN and N.D.SCHIFF.

**Brain function in coma, vegetative state, and related disorders.**

The Lancet, Neurology, Vol.3, pp.537 - 546. **Impact Factor: 21,713.**

F.PERRIN, P.PEIGNEUX, S.FUCHS, S.VERHAEGHE, S.LAUREYS, B.MIDDLETON, C.DEGUELDRE, G.DEL FIORE, G.VANDEWALLE, E.BALTEAU, R.POIRRIER, V.MOREAU, A. LUXEN, DERK-JAN DIJK and P.MAQUET.

**Nonvisual responses to light exposure in the human brain during the circadian night.**

Current Biology, Vol. 14, pp.1842 – 1846. **Impact Factor: 11,901.**

P.PEIGNEUX, M.VAN DER LINDEN, G.GARRAUX, S.LAUREYS, C.DEGUELDRE, J.AERTS, G.DEL FIORE, G.MOONEN, A.LUXEN and E.SALMON.

**Imaging a cognitive model of apraxia: the neural substrate of gesture-specific cognitive processes.**

Human brain Mapping, Vol. 21, pp. 119 – 142. **Impact Factor: 4,815.**

P.PEIGNEUX, S.LAURYES, S.FUCHS, F.COLLETTE, F.PERRIN, J.REGGERS, C.PHILLIPS, C.DEGUELDRE, G.DEL FIORE, J.AERTS, A.LUXEN and P.MAQUET.

**Are spatial memories strengthened in the human hippocampus during slow wave sleep.**

Neuron, Vol. 44, pp. 535 – 545. **Impact Factor: 14,439.**

M-E. FAYMONVILLE, K.H. PANTKE, J.BERRE, B.SADZOT, M.FERRING, P.VAN BOGAERT, X.de TIEGE, N.MAVROUDAKIS, B.LAMBERMONT, P. DAMAS, G. FRANCK, M.LAMY, A.LUXEN, G. MOONEN, S. GOLDMAN, S.LAUREYS and P. MAQUET.

**Zerebrale funktionen bei hirngeschädigten patienten**

Anaesthesist, Vol. 53, pp. 1195 – 1202. **Impact Factor: 0,819.**

P. PEIGNEUX, G. MELCHIOR, C. SCHMIDT, T. DANG\_VU, M.BOLY, S.LAUREYS, and P. MAQUET.

**Memory processing during sleep mechanism and evidence from neuroimaging studies.**

Psychologica Belgica, Vol. 44, pp. 121 – 142. **Impact factor:**

S.LAUREYS

**Functional neuroimaging in the vegetative state.**

NeuroRehabilitation, Vol. 19, pp. 335 – 341. **Impact Factor:**